

Dry Method Nonfluorescent Magnetic Particle Testing Consumables

	Product Name	Form		Specifications								Color in Visible Light	Particle Size	Sensitivity	Temperature Range		
		Fine, Dry Powder	Aerosol	AMS 3040	ASTM E709	ASTM E1444	ASME	ISO 9934	MIL-STD-2132	MIL-STD-271	NAVSEA 250-1500-1	NAVSEA T9074-AS-GIB-010/271	Color	microns*	SAE**	°F	°C
Nonfluorescent Magnetic Particles	#1 Gray	✓	-	✓	✓	✓	✓	-	✓	✓	✓	✓	Grey	80 microns	> 8	NA to 750°F	NA to 399°C
	#2 Yellow	✓	-	✓	✓	✓	✓	-	✓	✓	✓	✓	Yellow	80 microns	> 8	NA to 500°F	NA to 260°C
	#8A Red	✓	-	✓	✓	✓	✓	✓	✓	✓	✓	✓	Red	80 microns	> 8	NA to 600°F	NA to 316°C

* As determined by industry-typical method for measuring particle size

** Representative of the number of indications on a tool steel ring as defined in ASTM E1444

Wet Method Fluorescent Magnetic Particle Testing Consumables

Product Name	Carrier Fluid		Form				Concentration	Specifications										Color in Visible Light			Color Under UV Light	Particle Size	Sensitivity	Temperature Range		Additives			Flaw Size		
	Oil	Water	Concentrate	Ready-to-use	Dry Powder	Available in Aerosol		AMS 2641	AMS 3044	AMS3046	ASTM E709	ASTM E1444	ASME	Boeing PS 21201	ISO 9934	MIL-STD-2132	MIL-STD-271	NAVSEA 250-1500-1	NAVSEA T9074-AS-GIB-010/271	SAFRAN IN 5300				Forest green	Brown	Black	°F	°C		Water conditioner	Corrosion inhibitors
14A	✓	✓	✓	-	✓	-	1 gallon : 0.17 oz / 1 liter : 1.25 g	-	✓	-	✓	✓	✓	✓	✓	✓	✓	✓	-	✓	-	Fluorescent Yellow-Green	6 microns	8 – 9	32 to 120°F	0 to 49°C	-	-	-	Small	
14A Aqua-Glo	-	✓	-	✓	-	-	Ready-to-use	-	✓	-	✓	✓	-	-	✓	✓	✓	✓	-	-	✓	-	Fluorescent Yellow-Green	6 microns	8 – 9	32 to 120°F	0 to 49°C	✓	✓	✓	Small
14A Redi-Bath	-	✓	✓	-	-	-	1 gallon : 80 mL / 1 liter : 21 mL	-	✓	-	✓	✓	-	-	✓	✓	✓	✓	-	-	✓	-	Fluorescent Yellow-Green	6 microns	8 – 9	32 to 120°F	0 to 49°C	✓	✓	✓	Small
14AM	✓	-	-	✓	-	✓	Ready-to-use	✓	-	✓	✓	✓	-	✓	✓	✓	✓	✓	-	-	✓	-	Fluorescent Yellow-Green	6 microns	8 – 9	55 to 120°F	13 to 49°C	-	-	-	Small
20B	-	✓	✓	-	✓	-	1 gallon : 1.5 ounces / 1 liter : 11.2 grams	-	✓	-	✓	✓	-	-	✓	✓	✓	✓	-	-	✓	-	Fluorescent Yellow-Green	6 microns	8 – 9	32 to 120°F	0 to 49°C	✓	✓	✓	Small
MG-410	✓	✓	✓	-	✓	-	1 gallon : 0.1 oz / 1 liter : 0.74 g	-	✓	-	✓	✓	-	✓	✓	-	✓	✓	✓	-	-	-	Fluorescent Yellow-Green	19 microns	7	32 to 120°F	0 to 49°C	-	-	-	Medium and Large
MG-450A	-	✓	✓	-	✓	-	1 gallon : 1.4 ounces / 1 liter : 10.75 grams	-	✓	-	✓	✓	-	-	✓	-	✓	✓	-	✓	-	-	Fluorescent Yellow-Green	19 microns	7	32 to 120°F	0 to 49°C	✓	✓	✓	Medium and Large

Wet Method Nonfluorescent Magnetic Particle Testing Consumables

	Product Name	Carrier Fluid		Form			Concentration	Specifications											Color in Visible Light				Particle Size	Sensitivity	Temperature Range		Flaw Size	
		Oil	Water	Concentrate	Ready-to-use	Dry Powder		Available in Aerosol	AMS 3042	AMS 3043	ASTM E709	ASTM E1444	ASME	Boeing PS 21201	ISO 9934	MIL-STD-2182	MIL-STD-271	NAVSEA 250-1500-1	NAVSEA T9074-AS-GIB-010271	SAFRAN IN 5300	Forest green	Brown			Black	White		°F
Nonfluorescent Magnetic Particles	7C Black	✓	✓	✓	-	✓	-	1 gallon : 1.25 oz / 1 liter : 9.4 g	✓	-	✓	✓	✓	✓	-	✓	✓	✓	-	-	-	✓	-	< 2 microns	> 6	32 to 165°F	0 to 74°C	Medium
	7HF	✓	-	-	✓	-	✓	Ready-to-use	-	✓	✓	✓	✓	✓	-	✓	✓	-	-	-	✓	-	< 2 microns	> 6	42 to 120°F	6 to 49°C	Medium	
	MV-740	-	✓	-	✓	-	-	1 gallon / 3.78 liter	-	✓	✓	✓	✓	-	✓	-	-	-	-	-	✓	-	< 2 microns	> 6	42 to 120°F	6 to 49°C	Medium	
White Contrast Paint	WCP-2	-	-	-	-	-	✓	Ready-to-use	-	-	-	-	✓	-	✓	-	-	-	-	-	-	✓	-	-	40 to 120°F	4 to 49°C	-	

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Wet Method Magnetic Particle Testing Consumables

	Product Name	Carrier Fluid		Form	Characteristics					Specifications											Product Properties		Temperature Range		Concentration			
		Oil	Water		Concentrate	Dry Powder	Liquid	Water-soluble	Wetting agents	Corrosion inhibitor	Anti-forming agents	ASTM E709	ASTM E1444	A-A-59230	AMS 2641 Type 1	ASTM E1444	ISO 9934	ASME BPVS	MIL-STD-2132	NAVSEA T9074-AS-IB-010271	NAVSEA 250-1500-1	Pratt & Whitney PMC 1887	Color in Visible Light	Color under UV Light		°F	°C	
Water Conditioners	AX-52	-	✓	✓	-	✓	✓	-	✓	-	✓	✓	-	-	-	-	-	-	-	-	-	-	-	Light amber	Nonfluorescent, colorless	-	-	10 gallons : 16 – 32 fl oz / 10 liters : 125 – 150 mL
	WA-2B	-	✓	✓	✓	-	✓	✓	✓	✓	✓	✓	-	-	-	-	-	-	-	-	-	-	-	White	Nonfluorescent, colorless	-	-	1 gallon : 133 ounces / 1 liter : 97 grams
Additives	ZAF-2	-	✓	✓	-	✓	-	-	-	✓	✓	✓	-	-	-	-	-	-	-	-	-	-	-	Clear, colorless	Nonfluorescent, colorless	-	-	1 gallon : <1.3 fl oz / 1 liter : <10 mL
Suspension Vehicle	Carrier II	✓	-	-	-	✓	-	-	-	-	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	Clear, colorless	Nonfluorescent	55 to 120°F	12 to 49°C	-